

ABSTRACT

An array antenna reception apparatus capable of calibrating a received signal with high accuracy without generating unnecessary radiations at an antenna section even when the power level of the received signal is low. In this apparatus, reference signal generation section (123) operates only when the power level of the received signal captured by antenna section (111) is low and a reference signal is generated. Error calculation section (122) compares information (S3) on the received signal multiplexed with the reference signal with calibration signal (S4) to thereby calculate an error of the received signal produced in the received signal due to signal processing at reception unit (110) and instructs received signal processing section (121) to compensate for the received signal based on the calculated error of the received signal.